

AMENDMENTS

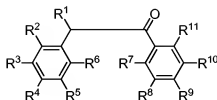
Please amend the following claims:

1. (Original) A composition for variably releasing fragrances comprising in combination:

- (a) a first organic agent that undergoes an intramolecular photochemical rearrangement that is induced by sunlight radiation to release or from a second agent that is a fragrance; and
- (b) a carrier for topical administration to skin or hair or administration to articles of clothing and other textiles via washing or spraying methods.

2. (Original) A photoresponsive fragrance composition comprising:

- (a) a compound having the formula



wherein

R₁ is substituted ester (--OC(O)R₁₂), substituted phosphate (--OP(O)(R₁₉)(OR₂₀), substituted thiol (--S-R₁₂), substituted amine (--NH-R₁₂) or an other substituted chemical group covalently linked to a fragrance or fragrance molecule;

R₂ is hydrogen, hydroxy, alkyl, aryl, alkoxy or substituted alkoxy;

R₃ is hydrogen, hydroxy, alkyl, aryl, alkoxy or substituted alkoxy;

R₄ is hydrogen, hydroxy, alkyl, aryl, alkoxy or substituted alkoxy;

R₅ is hydrogen, hydroxy, alkyl, aryl, alkoxy or substituted alkoxy;

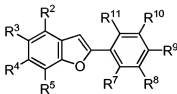
R₆ is hydrogen, hydroxy, alkyl, aryl, alkoxy or substituted alkoxy;

R_7 is hydrogen, alkyl, aryl, alkoxy or substituted alkoxy;
 R_8 is hydrogen, alkyl, aryl, alkoxy or substituted alkoxy;
 R_9 is hydrogen, alkyl, aryl, alkoxy or substituted alkoxy;
 R_{10} is hydrogen, alkyl, aryl, alkoxy or substituted alkoxy;
 R_{11} is hydrogen, alkyl, aryl, alkoxy or substituted alkoxy;
 R_{12} , is a fragrance or molecule that imparts a fragrance;
 R_{19} is a hydrogen and R_{20} is a fragrance or molecule that imparts a fragrance
 R_{19} is a fragrance or molecule that imparts a fragrance and R_{20} is a hydrogen
 wherein at least one of R_2 or R_6 is hydrogen;
 wherein at least one of R_2 , R_3 , R_4 , R_5 , or R_6 is hydroxy or substituted alkoxy; and

(B) a carrier for topical administration to skin or hair or direct administration to articles of clothing and other textiles or via a washing or spraying method.

3. (Original) A photoresponsive fragrance composition comprising:

(A) a sunlight absorbing compound having the formula



wherein

R_2 is hydrogen, hydroxy (C_{1-20})alkyl, (C_{5-12})aryl, (C_{1-20})alkoxy or substituted (C_{1-20})alkoxy;

R_3 is hydrogen, hydroxy, (C_{1-20})alkyl, (C_{5-12})aryl, (C_{1-20})alkoxy or substituted (C_{1-20})alkoxy;

R_4 is hydrogen, hydroxy, (C_{1-20})alkyl, (C_{5-12})aryl, (C_{1-20})alkoxy or substituted (C_{1-20})alkoxy;

R₅ is hydrogen, hydroxy, (C₁₋₂₀)alkyl, (C₅₋₁₂)aryl, (C₁₋₂₀)alkoxy or substituted (C₁₋₂₀)alkoxy;

R₇ is hydrogen, (C₁₋₂₀)alkyl, (C₅₋₁₂) aryl, (C₁₋₂₀)alkoxy or substituted (C₁₋₂₀)alkoxy;

R₈ is hydrogen, (C₁₋₂₀)alkyl, (C₅₋₁₂)aryl, (C₁₋₂₀)alkoxy or substituted (C₁₋₂₀)alkoxy;

R₉ is hydrogen, (C₁₋₂₀)alkyl, (C₅₋₁₂)aryl, (C₁₋₂₀)alkoxy or substituted (C₁₋₂₀)alkoxy;

R₁₀ is hydrogen, (C₁₋₂₀)alkyl, (C₅₋₁₂)aryl, (C₁₋₂₀)alkoxy or substituted (C₁₋₂₀)alkoxy;

R₁₁ is hydrogen, (C₁₋₂₀)alkyl, (C₅₋₁₂)aryl, (C₁₋₂₀)alkoxy or substituted (C₁₋₂₀)alkoxy;

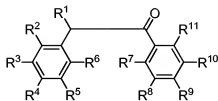
wherein at least one of R₂, R₃, R₄, or R₅ is hydroxy or substituted (C₁₋₂₀)alkoxy;

(B) a carrier for topical administration or direct administration to articles of clothing and other textiles or via routine washing.

(C) a fragrance or fragrance molecule

4. (Original) A composition useful for releasing fragrances of a desired scent comprising:

(A) a compound having the formula



wherein

R₁ is substituted ester (--OC(O)R₁₂), substituted phosphate (--OP(O)(R₁₉)(OR₂₀), substituted thiol (--S-R₁₂), substituted amine (--NH-R₁₂) or an other substituted chemical group covalently linked to a fragrance or fragrance molecule

R₂ is hydrogen, hydroxy, alkyl, aryl, alkoxy, or substituted alkoxy;

R₃ is hydrogen, hydroxy, alkyl, aryl, alkoxy, or substituted alkoxy;

R₄ is hydrogen, hydroxy alkyl, aryl, alkoxy, or substituted alkoxy;

R_5 is hydrogen, hydroxy, alkyl, aryl, alkoxy, or substituted alkoxy;
 R_6 is hydrogen, hydroxy, alkyl, aryl, alkoxy, or substituted alkoxy;
 R_7 is hydrogen, alkyl, aryl, alkoxy, or substituted alkoxy;
 R_8 is hydrogen, alkyl, aryl, alkoxy, or substituted alkoxy;
 R_9 is hydrogen, alkyl, aryl, alkoxy, or substituted alkoxy;
 R_{10} is hydrogen, alkyl, aryl, alkoxy, or substituted alkoxy;
 R_{11} is hydrogen, alkyl, aryl, alkoxy, or substituted alkoxy;
 R_{12} is a fragrance or fragrance molecule;
 R_{19} is hydrogen or a fragrance molecule; and
 R_{20} is hydrogen or a fragrance molecule
 wherein at least one of R_2 or R_6 is hydrogen;
 wherein at least one of R_2 , R_3 , R_4 , R_5 or R_6 is hydroxy or substituted alkoxy; and

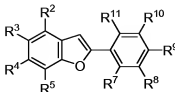
(B) a carrier for topical administration to skin or hair or direct administration to articles of clothing and other textiles or via washing or spraying.

5. (Original) The composition according to claim 4 further comprising an auxiliary fragrance agent having a different fragrance than the photoreleased fragrance.

6. (Original) The composition according to claim 4 further comprising a photo rearranged product having a desirable fragrance.

7. (Original) A composition useful for releasing a desirable fragrance comprising:

(A) an sunlight absorbing compound having the formula



wherein

R₂ is hydrogen, hydroxy, (C₁₋₂₀)alkyl, (C₅₋₁₂)aryl, (C₁₋₂₀)alkoxy, or substituted (C₁₋₂₀)alkoxy;

R₃ is hydrogen, hydroxy, (C₁₋₂₀)alkyl, (C₅₋₁₂)aryl, (C₁₋₂₀)alkoxy, or substituted (C₁₋₂₀)alkoxy;

R₄ is hydrogen, hydroxy, (C₁₋₂₀)alkyl, (C₅₋₁₂)aryl, (C₁₋₂₀)alkoxy, or substituted (C₁₋₂₀)alkoxy;

R₅ is hydrogen, hydroxy, (C₁₋₂₀)alkyl, (C₅₋₁₂)aryl, (C₁₋₂₀)alkoxy, or substituted (C₁₋₂₀)alkoxy;

R₇ is hydrogen, (C₁₋₂₀)alkyl, (C₅₋₁₂)aryl, (C₁₋₂₀)alkoxy, or substituted (C₁₋₂₀)alkoxy;

R₈ is hydrogen, (C₁₋₂₀)alkyl, (C₅₋₁₂)aryl, (C₁₋₂₀)alkoxy, or substituted (C₁₋₂₀)alkoxy;

R₉ is hydrogen, (C₁₋₂₀)alkyl, (C₅₋₁₂)aryl, (C₁₋₂₀)alkoxy, or substituted (C₁₋₂₀)alkoxy;

R₁₀ is hydrogen, (C₁₋₂₀)alkyl, (C₅₋₁₂)aryl, (C₁₋₂₀)alkoxy, or substituted (C₁₋₂₀)alkoxy;

R₁₁ is hydrogen, (C₁₋₂₀)alkyl, (C₅₋₁₂)aryl, (C₁₋₂₀)alkoxy, or substituted (C₁₋₂₀)alkoxy;

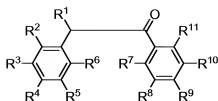
wherein at least one of R₂, R₃, R₄, or R₅ is hydroxy or substituted (C₁₋₂₀)alkoxy and

(B) a carrier for topical administration or direct administration to articles of clothing and other textiles or via routine washing.

8. (Original) The composition according to claim 7 wherein R₂ is hydrogen; R₃ is hydrogen, (C₁₋₂₀)alkoxy, or substituted (C₁₋₂₀)alkoxy; R₄ is hydrogen; R₅ is (C₁₋₂₀)alkoxy or substituted (C₁₋₂₀)alkoxy; R₇ is hydrogen; R₈ is hydrogen; R₉ is hydrogen; R₁₀ is hydrogen; and R₁₁ is hydrogen.

9. (Original) The composition according to claim 7 further comprising an auxiliary fragrance agent having a different fragrance than compound (A).

10. (Original) A photoresponsive fragrance composition comprising:
(A) a compound having the formula



wherein

R₁ is substituted ester (--OC(O)R₁₂), substituted phosphate (--OP(O)(R₁₉)(OR₂₀), substituted thiol (--S-R₁₂), substituted amine (--NH-R₁₂) or an other substituted chemical group covalently linked to a fragrance or fragrance molecule.;

R₂ is hydrogen, hydroxy, (C₁₋₂₀)alkyl, (C₅₋₁₂)aryl, (C₁₋₂₀)alkoxy or substituted (C₁₋₂₀)alkoxy;

R₃ is hydrogen, hydroxy, (C₁₋₂₀)alkyl, (C₅₋₁₂)aryl, (C₁₋₂₀)alkoxy or substituted (C₁₋₂₀)alkoxy;

R₄ is hydrogen, hydroxy, (C₁₋₂₀)alkyl, (C₅₋₁₂)aryl, (C₁₋₂₀)alkoxy or substituted (C₁₋₂₀)alkoxy;

R₅ is hydrogen, hydroxy, (C₁₋₂₀)alkyl, (C₅₋₁₂)aryl, (C₁₋₂₀)alkoxy or substituted (C₁₋₂₀)alkoxy;

R₆ is hydrogen, hydroxy, (C₁₋₂₀)alkyl, (C₅₋₁₂)aryl, (C₁₋₂₀)alkoxy or substituted (C₁₋₂₀)alkoxy;

R₇ is hydrogen, (C₁₋₂₀)alkyl, (C₅₋₁₂)aryl, (C₁₋₂₀)alkoxy or substituted (C₁₋₂₀)alkoxy;

R₈ is hydrogen, (C₁₋₂₀)alkyl, (C₅₋₁₂)aryl, (C₁₋₂₀)alkoxy or substituted (C₁₋₂₀)alkoxy;

R₉ is hydrogen, (C₁₋₂₀)alkyl, (C₅₋₁₂)aryl, (C₁₋₂₀)alkoxy or substituted (C₁₋₂₀)alkoxy;

R₁₀ is hydrogen, (C₁₋₂₀)alkyl, (C₅₋₁₂)aryl, (C₁₋₂₀)alkoxy or substituted (C₁₋₂₀)alkoxy;

R₁₁ is hydrogen, (C₁₋₂₀)alkyl, (C₅₋₁₂)aryl, (C₁₋₂₀)alkoxy or substituted (C₁₋₂₀)alkoxy;

R₁₂, is a fragrance or molecule that imparts a fragrance

R₁₉ is hydrogen or a fragrance molecule

R₂₀ is hydrogen or a fragrance molecule

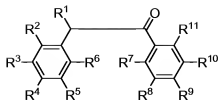
wherein at least one of R₂ or R₆ is hydrogen;

wherein at least one of R₂, R₃, R₄, R₅, or R₆ is hydroxy or substituted (C₁₋₂₀)alkoxy; and

(B) a carrier for topical administration or direct administration to articles of clothing and other textiles or via routine washing.

11. (Original) A composition useful releasing a desired fragrance comprising:

(A) a compound having the formula



wherein

R₁ is substituted ester (--OC(O)R₁₂), substituted phosphate (--OP(O)(R₁₉)(OR₂₀), substituted thiol (--S-R₁₂), substituted amine (--NH-R₁₂) or an other substituted chemical group covalently linked to a fragrance or fragrance molecule.;

R₂ is hydrogen, hydroxy, (C₁₋₂₀)alkyl, (C₅₋₁₂)aryl, (C₁₋₂₀)alkoxy, or substituted (C₁₋₂₀)alkoxy;

R₃ is hydrogen, hydroxy, (C₁₋₂₀)alkyl, (C₅₋₁₂)aryl, (C₁₋₂₀)alkoxy, or substituted (C₁₋₂₀)alkoxy;

R₄ is hydrogen, hydroxy, (C₁₋₂₀)alkyl, (C₅₋₁₂)aryl, (C₁₋₂₀)alkoxy, or substituted (C₁₋₂₀)alkoxy;

R₅ is hydrogen, hydroxy, (C₁₋₂₀)alkyl, (C₅₋₁₂)aryl, (C₁₋₂₀)alkoxy, or substituted (C₁₋₂₀)alkoxy;

R₆ is hydrogen, hydroxy, (C₁₋₂₀)alkyl, (C₅₋₁₂)aryl, (C₁₋₂₀)alkoxy, or substituted (C₁₋₂₀)alkoxy;

R₇ is hydrogen, (C₁₋₂₀)alkyl, (C₅₋₁₂)aryl, (C₁₋₂₀)alkoxy, or substituted (C₁₋₂₀)alkoxy;

R₈ is hydrogen, (C₁₋₂₀)alkyl, (C₅₋₁₂)aryl, (C₁₋₂₀)alkoxy, or substituted (C₁₋₂₀)alkoxy;

R₉ is hydrogen, (C₁₋₂₀)alkyl, (C₅₋₁₂)aryl, (C₁₋₂₀)alkoxy, or substituted (C₁₋₂₀)alkoxy;

R₁₀ is hydrogen, (C₁₋₂₀)alkyl, (C₅₋₁₂)aryl, (C₁₋₂₀)alkoxy, or substituted (C₁₋₂₀)alkoxy;

R₁₁ is hydrogen, (C₁₋₂₀)alkyl, (C₅₋₁₂)aryl, (C₁₋₂₀)alkoxy, or substituted (C₁₋₂₀)alkoxy;

R₁₂ is a fragrance or a molecule that imparts a fragrance

R₁₉ is hydrogen or a fragrance molecule

R₂₀ is hydrogen or a fragrance molecule

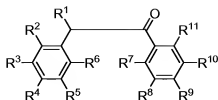
wherein at least one of R₂ or R₆ is hydrogen;

wherein at least one of R₂, R₃, R₄, R₅ or R₆ is hydroxy or substituted (C₁₋₂₀)alkoxy; and

(B) a carrier for topical administration or direct administration to articles of clothing and other textiles or via routine washing.

12. (Original) A photoresponsive fragrance comprising: \

(A) a compound having the formula



wherein

R₁ is a fragrance molecule;

R₂ is hydrogen, hydroxy, alkyl, aryl, alkoxy or substituted alkoxy;

R₃ is hydrogen, hydroxy, alkyl, aryl, alkoxy or substituted alkoxy;

R₄ is hydrogen, hydroxy, alkyl, aryl, alkoxy or substituted alkoxy;

R₅ is hydrogen, hydroxy, alkyl, aryl, alkoxy or substituted alkoxy;

R₆ is hydrogen, hydroxy, alkyl, aryl, alkoxy or substituted alkoxy;

R₇ is hydrogen, alkyl, aryl, alkoxy or substituted alkoxy;

R₈ is hydrogen, alkyl, aryl, alkoxy or substituted alkoxy;

R₉ is hydrogen, alkyl, aryl, alkoxy or substituted alkoxy;

R₁₀ is hydrogen, alkyl, aryl, alkoxy or substituted alkoxy;

R₁₁ is hydrogen, alkyl, aryl, alkoxy or substituted alkoxy;

wherein at least one of R₂ or R₆ is hydrogen;

wherein at least one of R₂, R₃, R₄, R₅, or R₆ is hydroxy or substituted alkoxy; and

(B) a carrier for topical administration or direct administration to article of clothing and other textiles or via routine washing.

13. (Withdrawn) A method of controlling the release of a fragrance by incorporating the compositions of any one of claims 1 to 12 into clothing or textiles by spraying the composition onto the clothing or textiles or washing the clothing or textiles in a solution of the composition.

14. (Withdrawn) A method according to claim 13, wherein the composition is sprayed onto the clothing or textiles.

15. (Withdrawn) A method according to claim 13, wherein the composition is incorporated into the clothing or textiles via washing.
16. (Original) A composition according to any one of claims 1, 2, 3, 4, 5, or 6, wherein the composition is formulated for spraying onto the skin.
17. (Original) A composition according to any one of claims 1, 2, 3, 4, 5, or 6, wherein the composition is formulated for rubbing onto the skin.
18. (Withdrawn) A method of controlling the release of a fragrance by applying the compositions of any one of claims 1 to 12 onto the skin or hair of a mammal.
19. (Withdrawn) A method according to claim 16, wherein the mammal is a human.
20. (Withdrawn) A method according to claim 16, wherein the mammal is a companion animal.
21. (Original) A composition according to any one of claims 1, 2, 4, 5, 6, 10, 11, 12, 16, or 17, wherein the compound is of the formula:

